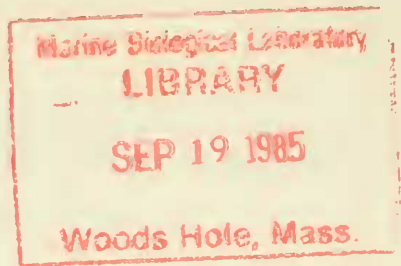


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**Catalog of Non-Asteroid, Non-Mollusk Type-Specimens  
in the Department of Invertebrate Zoology,  
California Academy of Sciences**

**By**

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# Catalog of Non-Asteroid, Non-Mollusk Type-Specimens in the Department of Invertebrate Zoology, California Academy of Sciences

Daphne Gail Fautin and Barbara E. Weitbrecht

## INTRODUCTION

A general catalog of type-specimens held by the Department of Invertebrate Zoology, California Academy of Sciences (CAS) was published in 1966 (Stasek 1966a). This was supplemented by catalogs of solenogasters (Stasek 1966b), cephalopods (Smith 1974) and ostracods (Cohen and Chivers 1976). The CAS Department of Geology published catalogs of its type and voucher holdings of Recent and fossil cephalopods (Zullo and Hertlein 1970), echinoderms (Zullo and Hertlein 1972) and brachiopods (Roth 1972).

Much material has been acquired by the Department of Invertebrate Zoology (CAS-IZ) since these catalogs were published, through normal collection growth, transfer of Recent specimens from the Department of Geology and acquisition of type collections from other institutions, notably the University of California at Berkeley, and Stanford University and its Hopkins Marine Station. A catalog (Smith 1978) of the Stanford University paleontology type collection, which contained some Recent specimens, was compiled before the material was transferred to CAS in 1977.

All invertebrate type-specimens in CAS-IZ, except dry mollusks, have been recurated within the past three years. As part of recuration, the practice of having two series of catalog numbers, one for type-specimens and one for non-types, was abandoned, necessitating assignment of new catalog numbers to all type lots (Dunn 1981).

Due to the large volume of material and the importance of making lists of holdings available to the scientific community (International Code of Zoological Nomenclature Recommendation 72D), three type catalogs are being issued by CAS-IZ. That on asteroids, which also includes non-type material cited by W. K. Fisher in his monographs on the group, has recently been published (Chaffee and Weitbrecht 1984). Publication of the mollusk volume is anticipated within a year, when the dry type-specimens have been completely recurated. National Science Foundation grant DEB 79-08522 assisted with the preparation of the first two volumes, and grant DEB 81-21511 is supporting the malacological section.

This catalog, containing 492 specimen lots representing 316 species in 14 phyla, is arranged in systematic order. Phylum, class and order sequences follow those in *Synopsis and Classification of Living Organisms* (Parker 1982). All lower taxa are arrayed alphabetically. In case of multiple lots of the same species, primary types are listed before secondary types. Within a category, order is by catalog number.

Species are listed by the name under which they were described, followed by author and date. Beneath each name is the citation of the original description. Below that are listed all type-specimens of the taxon held by CAS-IZ. Remarks about the specimen lot, such as preservative and the number of specimens, are enclosed in parentheses after the catalog number. Other catalog numbers by which the lot may have been identified in previous publications follow in parentheses. Abbreviations used with these numbers are: **G**—CAS Geology catalog number; **GTY**—CAS Geology type series number; **IZ**—CAS Invertebrate Zoology type series number; **PMS**—University of the Pacific, Pacific Marine Station catalog number; **SSB**—S. S. Berry catalog number; **SU**—Stanford University catalog number; **UC**—University of California, Berkeley, catalog number. The last line in each entry is the general collection locality.

Our heartfelt thanks go to Sheri Dunklau for the hours she spent at the word processor in the interests of this project, and to Phoebe Grigg for all the type sheets she completed. Jeanne Lynch also made important contributions to completion of the catalog.

## CATALOG

### Subkingdom PROTOZOA

#### Phylum SARCOMASTIGOPHORA

##### Class Granuloreticulosa

##### Order FORAMINIFERIDA

##### Family Discorbidae

#### *Discorbis hanna*e Church, 1968

Proc. Calif. Acad. Sci., ser. 4, 30(17): 371

Holotype: 036407 (1, dry) (GTY13034)

off Cape San Lucas, Baja California Sur, Mexico

#### *Discorbis laquei* Church, 1952

Proc. Calif. Acad. Sci., ser. 4, 30(17): 375

Holotype: 036410 (1, dry) (GTY9517)  
 Mendocino Co., California  
 Paratypes: 036411 (2, dry) (GTY9518-9519)  
 Mendocino Co., California  
 Paratypes: 036412 (3, dry) (GTY9520-9523)  
 Anacapa Island, California

*Rosalina natlandi* Church, 1968

Proc. Calif. Acad. Sci., ser. 4, 30(17): 373  
 Holotype: 036408 (1, dry) (GTY13035)  
 off Cape San Lucas, Baja California Sur, Mexico

Family Elphidiidae

*Elphidium concinnum* Nicol, 1944

J. Paleontol. 18(2): 179  
 Paratype: 036401 (1, dry) (GTY8382)  
 San Quentin, Baja California, Mexico

*Elphidium excubitor* Nicol, 1944

J. Paleontol. 18(2): 178  
 Paratype: 036400 (1, dry) (GTY8381)  
 Punta Peñasco, Sonora, Mexico

*Elphidium fax fax* Nicol, 1944

J. Paleontol. 18(2): 177  
 Paratype: 036398 (1, dry) (GTY8378)  
 Dallas Bank, Straits of Juan de Fuca, Washington

*Elphidium fax pingue* Nicol, 1944

J. Paleontol. 18(2): 177  
 Paratype: 036399 (1, dry) (GTY8379)  
 Monterey Bay, California

*Elphidium hannaï* Cushman and Grant, 1927

Trans. San Diego Soc. Nat. Hist. 5(6): 77  
 Holotype: 036406 (1, dry) (GTY2808)  
 off Farallon Islands, California

Family Nodosariidae

*Fronicularia gigas* Church, 1929

J. Paleontol. 3(3): 303  
 Holotype: 036402 (1, dry) (GTY4700)  
 Santa Catalina Island, California  
 Paratypes: 036403 (3, dry) (GTY4701-4703)  
 Santa Catalina Island, California

*Robulus strongi* Church, 1929

J. Paleontol. 3(3): 305  
 Holotype: 036404 (1, dry) (GTY4704)  
 Santa Catalina Island, California  
 Paratypes: 036405 (4, dry) (GTY4705-4708)  
 Santa Catalina Island, California

Phylum MICROSPORA

Class Microsporea

Order MICROSPORIDA  
 Family Glugeidae

*Glugea heraldi* Blasiola, 1979a

J. Fish Dis. 2: 494  
 Holotype: 021391 (1, micro. slide) (IZ715)  
 Florida: on *Hippocampus erectus*.

Subkingdom PARAZOA

Phylum PORIFERA

Class Demospongiae

Order CHORIDTIDA  
 Family Sollasellidae

*Axinomimus tuscarus* Ristau, 1978

Proc. Biol. Soc. Wash. 91(3): 569-589

Holotype: 046520 (1 piece, 95% EtOH)  
 Carmel, California  
 Paratype: 046518 (several pieces, 95% EtOH)  
 Carmel, California

Order HAPLOSCLERIDA  
 Family Adocidae

*Adocia dubia* Ristau, 1978

Proc. Biol. Soc. Wash. 91(3): 569-589  
 Paratype: 046524 (1 piece, 95% EtOH)  
 Sonoma County, California  
 Paratype: 046525 (several pieces, 95% EtOH)  
 Sonoma County, California

*Toxadocia zumi* Ristau, 1978

Proc. Biol. Soc. Wash. 91(3): 569-589  
 Paratype: 046522 (2 pieces, 95% EtOH)  
 Carmel, California

Family Haliclonidae

*Xestospongia trindanea* Ristau, 1978

Proc. Biol. Soc. Wash. 91(3): 569-589  
 Holotype: 046521 (many pieces, 95% EtOH)  
 Sonoma County, California

Order HALICHONDRIDA  
 Family Halichondriidae

*Leucoploeus actites* Ristau, 1978

Proc. Biol. Soc. Wash. 91(3): 569-589  
 Paratype: 046523 (3 pieces, 95% EtOH)  
 Sonoma County, California

Class Calcarea

Order CLATHRINIDA  
 Family Clathrinidae

*Artemisia archeгона* Ristau, 1978

Proc. Biol. Soc. Wash. 91(3): 569-589  
 Holotype: 046519 (1 piece, 95% EtOH)  
 Carmel, California

Subkingdom EUMETAZOA

Phylum CNIDARIA

Class Scyphozoa

Order SEMAEOSTOMEAE  
 Family Pelagiidae

*Chrysaora gilberti* Kishinouye, 1899

Zool. Anz. 22: 44  
 Syntype: 018826 (1, 10% formalin) (IZ162)  
 Monterey Bay, California

Class Hydrozoa

Order HYDROIDA  
 Family Bougainvilliidae

?*Bimeria pusilla* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 168  
 Syntype: 021799 (broken, 10% formalin) (IZ114)  
 San Francisco Bay, California

?*Bimeria tenella* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 168  
 Syntype: 021800 (broken, 10% formalin) (IZ115)  
 San Francisco Bay, California



## Family Campanulariidae

*?Campanularia castellata* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 170

Syntype: 021801 (broken, 10% formalin) (IZ116)

San Francisco Bay, California

*Campanularia eloisa* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 943

Syntype: 018684 (1 colony, 75% EtOH) (IZ165)

Maui Island, Hawaii

## Family Campanulinidae

*Stegopoma gilberti* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 943

Syntype: 018692 (4 stalks, 75% EtOH) (IZ166)

Maui Island, Hawaii

*Stegopoma plumicola* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 944

Syntype: 018685 (1 colony, 75% EtOH) (IZ167)

Laysan Island, Leeward Islands, Hawaii

## Family Clavidae

*Coryndendrium minor* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 941

Syntype: 018683 (1 colony, 75% EtOH) (IZ164)

Maui Island, Hawaii

## Family Corynidae

*?Coryne corrugata* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 167

Syntype: 021798 (broken, 10% formalin) (IZ113)

San Diego County, California

## Family Lafocidae

*Cryptolaria symmetrica* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 947

Syntype: 018691 (1 colony, 75% EtOH) (IZ168)

Hawaiian Islands

*Lafocia adnata* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 171

Syntype: 021802 (several branches, 10% formalin) (IZ117)

Farallon Islands, California

## Family Pandeidae

*Hydrodendrium gorgonooides* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 936

Syntype: 019511 (1 branch, 75% EtOH) (IZ163)

near Kauai, Hawaii

## Family Plumulariidae

*Aglaophenia calycifera* Bale, 1914b

Biol. Res. "Endeavor" 1909-14 2(4): 178

Paratype: 014525 (2 fragments, 75% EtOH)

Great Australian Bight, Australia

*Aglaophenia carinifera* Bale, 1914b

Biol. Res. "Endeavor" 1909-14 2(4): 181

Paratype: 014439 (1 fragment, side branches broken, 75% EtOH)

Great Australian Bight, Australia

*Aglaophenia megalocarpa* Bale, 1914a

Biol. Res. "Endeavor" 1909-14 2(1): 45

Paratype: 014511 (1 branch, 75% EtOH)

Great Australian Bight, Australia

*Antennella complexa* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 952

Syntype: 018687 (2 segments, 75% EtOH) (IZ170)

Pailolo Channel, Maui, Hawaii

*Antennularia verticillata* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 171

Syntype: 021803 (small pieces, 10% formalin) (IZ118)  
off Hecata Head, Oregon*Halicornaria flava* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 955

Syntype: 018690 (2 segments, 75% EtOH) (IZ173)

Laysan Island, Leeward Islands, Hawaii

*Halicornaria sinuosa* Fraser, 1925

Univ. Calif. Publ. Zool. 28(7): 171

Syntype: 021804 (numerous pieces, 10% formalin) (IZ119)  
Florida*Lytocarpus hawaiiensis* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 954

Syntypes: 018689 (3 colonies, 75% EtOH) (IZ171)

Molokai, Hawaii

*Lytocarpus similis* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 955

Syntype: 018688 (2 segments, 75% EtOH) (IZ172)

vicinity of Kauai, Hawaii

*Monostaechas fisheri* Nutting, 1905

Bull. U. S. Fish Comm. 23(3) (for 1903): 952

Syntype: 018686 (several strands, 75% EtOH) (IZ169)

Laysan Island, Leeward Islands, Hawaii

## Family Sertulariidae

*Sertularella halecina* Torrey, 1902

Univ. Calif. Publ. Zool. 1: 61

Syntype: 022000 (part of colony, 75% EtOH) (IZ126)

San Diego Bay, California

## Order STYLASTERINA

## Family Stylasteridae

*Allopora brochi* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 517

Syntype: 028183 (1 piece, fragment of type retained by  
Fisher; dry)

Semisopochnoi Island, Alaska

*Allopora campyleca* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 505

Syntype: 028297 (8 medium-small fragments plus many  
smaller fragments of type colony retained by Fisher; dry)

Aleutian Islands, Alaska

*Allopora campyleca paragea* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 507

Paratype: 028299 (1 large, 4 small, many fragments, dry)  
Alaska*Allopora campyleca trachystoma* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 510

Paratype: 028296 (1 fragment, dry)

Attu Island, Alaska

*Allopora moseleyana* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 512

Syntype: 028300 (2, dry)

near Agattu Island, Alaska

*Allopora petrograpta* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 530

Paratype: 028184 (2 small fragments, dry)

Alexander Archipelago, Alaska

*Allopora polyorchis* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 503

Syntype: 028298 (2 small pieces, many fragments, dry)  
off Atka Island, Alaska*Cryptohelia gigantea* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 535

Syntype: 029129 (3 small fragments of type colony retained  
by Fisher; dry)

off Isla Santa Cruz, Galapagos Islands

*Errinopora zarhyncha* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 539

Paratype: 028186 (2 pieces, dry)  
off Atka Island, Alaska*Stylaster cancellatus* Fisher, 1938

Proc. U. S. Nat. Mus. 84(3024): 502

Paratype: 028302 (1, dry)  
off Atka Island, Alaska*Stylaster (Allopora) norvegicus* forma *pacifica* Broch, 1936

Skr. Norske Videnskaps-Akad. 1. Mat.-Nat. Kl. 8: 52

Syntype: 028181 (3 fragments of colony; dry)  
Sea of Okhotsk, USSR*Stylaster scabiosa* Broch, 1935

Issled. Mor. SSSR 22: 58

Paratype: 028295 (4 fragments, dry)  
Sea of Okhotsk, USSR*Stylaster tenuis* Verrill, 1864

Bull. Mus. Comp. Zool. Harvard 1: 45

Syntype: 029622 (fragments, dry)  
Upolu Island, Western Samoa

## Class Anthozoa

## Order GORGONACEA

## Family Chrysogorgiidae

*Iridogorgia bella* Nutting, 1908

Proc. U. S. Nat. Mus. 34: 580

Paratype: 021663 (1 branch, 75% EtOH) (IZ159)  
Kauai, Hawaii

## Family Paramuriceidae

*Paramuricea hawaiiensis* Nutting, 1908

Proc. U. S. Nat. Mus. 34: 580

Paratype: 021662 (broken branches, 75% EtOH)  
Kauai, Hawaii

## Family Primnoidae

*Stenella helminthophora* Nutting, 1908

Proc. U. S. Nat. Mus. 34: 575

Paratype: 008522 (portion of colony, 75% EtOH) (IZ158)  
French Frigate Shoal, Hawaii

## Order ALCYONACLA

## Family Alcyoniidae

*Cladiella steineri* Verseveldt, 1982

Zool. Meded. 56(12): 145

Holotype: 030117 (1 colony, 75% EtOH)  
Gulf of Thailand*Siphonogorgia lobata* Verseveldt, 1982

Zool. Meded. 56(12): 149

Holotype: 030118 (1, 75% EtOH)  
Taiwan

## Order PENNATULACEA

## Family Pennatulidae

*Pennatula sanguinea* Nutting, 1908

Proc. U. S. Nat. Mus. 34: 557

Paratype: 003672 (1 branch, 75% EtOH) (IZ157)  
Oahu, Hawaii

## Order ACTINIARIA

## Family Actiniidae

*Anthopleura handi* Dunn, 1978

Wasmann J. Biol. 35(1): 54

Holotype: 015674 (half longitudinally bisected animal, 10%  
formalin; 5 micro. slides) (IZ692)  
Selangor, West MalaysiaParatype: 015675 (half longitudinally bisected animal, 10%  
formalin; 4 micro. slides) (IZ693)  
Selangor, West MalaysiaParatype: 015676 (half longitudinally bisected animal, 10%  
formalin; 3 micro. slides) (IZ694)  
Selangor, West MalaysiaParatype: 015677 (half longitudinally bisected animal, 10%  
formalin; 4 micro. slides) (IZ695)  
Selangor, West Malaysia*Aulactinia incubans* Dunn, Chia and Levine, 1980

Can. J. Zool. 58(11): 207

Holotype: 015670 (female, half longitudinally bisected animal,  
10% formalin; 3 micro. slides)  
San Juan Island, WashingtonParatype: 015671 (hermaphrodite, half longitudinally bisected  
animal, 10% formalin; 2 micro. slides)  
San Juan Island, WashingtonParatype: 015672 (female, half longitudinally bisected animal,  
10% formalin; 3 micro. slides)  
San Juan Island, WashingtonParatype: 015673 (1, 10% formalin)  
San Juan Island, Washington*Bolocera paucicornis* Dunn, 1983b

Antarctic Res. Ser. 39(1): 18

Paratypes: 014248 (2, 75% EtOH; 4 micro slides)  
South Shetland Islands, AntarcticaParatype: 014249 (1, 75% EtOH; 4 micro slides)  
South Sandwich Islands, Atlantic OceanParatype: 029662 (1, 75% EtOH)  
McMurdo Sound, AntarcticaParatype: 029663 (1, 75% EtOH)  
McMurdo Sound, AntarcticaParatypes: 029664 (3, 75% EtOH)  
west of Antarctic Peninsula

## Family Bathypheiliidae

*Bathypheilia australis* Dunn, 1983b

Antarctic Res. Ser. 39(1): 34

Paratype: 017958 (1, 75% EtOH; 6 micro slides)  
Drake Passage, off tip of South AmericaParatype: 029636 (1, 75% EtOH)  
Drake Passage, off tip of South AmericaParatype: 029637 (1, 75% EtOH)  
Amundsen Sea, Antarctica

## Family Hormathiidae

*Paraphelliactis pabista* Dunn, 1983a

Syesis 15: 51

Paratypes: 025999 (2, 75% EtOH; 9 micro slides)

Queen Charlotte Islands, British Columbia, Canada

Paratypes: 026000 (2, 75% EtOH; 4 micro slides)

Queen Charlotte Islands, British Columbia, Canada

Paratype: 028040 (1, 75% EtOH)

Queen Charlotte Islands, British Columbia, Canada

Paratype: 028043 (1, 75% EtOH)

Vancouver Island, British Columbia, Canada

## Family Isanthidae

*Eltaninactis infundibulum* Dunn, 1983b

Antarctic Res. Ser. 39(1): 56

Paratypes: 005997 (10, 75% EtOH; 23 micro. slides)

South Shetland Islands, Antarctica

Paratype: 009750 (1, 75% EtOH; 4 micro. slides)

South Shetland Islands, Antarctica

## Order CORALLIMORPHARIA

## Family Actinodiscidae

*Amplexidiscus fenestrafer* Dunn and Hamner, 1980

Micronesica 16(1): 31

Holotype: 015553 (1, 10% formalin) (IZ708)

Lizard Island, Great Barrier Reef, Australia

Paratype: 015554 (1, 10% formalin) (IZ709)

Palau Island, Caroline Islands

## Order SCLERACTINIA

## Family Agariciidae

*Cyathoceras quaylei* Durham, 1947

Mem. Geol. Soc. Amer. 20: 32

Paratype: 036396 (1, dry) (SU7954)

off Point Sur, California

## Family Dendrophylliidae

*Balanophyllia cedroensis* Durham, 1947

Geol. Soc. Amer. Mem. 20: 40

Holotype: 029961 (1, dry) (GTU7844)

near Cedros Island, Baja California, Mexico

*Dendrophyllia californica* Durham, 1947

Geol. Soc. Amer. Mem. 20: 37

Holotype: 029960 (1, dry) (GTU7858)

Baja California, Mexico

*Endopachys vaughani* Durham, 1947

Geol. Soc. Amer. Mem. 20: 39

Holotype: 029970 (1, dry) (GTU7839)

San Jose del Cabo Bay, Baja California, Mexico

Paratype: 029971 (1 large, 2 small, dry) (GTU7840-7842)

San Jose del Cabo Bay, Baja California, Mexico

## Family Flabellidae

*Flabellum(?) montereyense* Durham, 1947

Geol. Soc. Amer. Mem. 20: 37

Paratype: 029966 (1, dry) (GTU7852)

off San Nicolas Island, California

## Family Fungiidae

*Cycloseris mexicana* Durham, 1947

Geol. Soc. Amer. Mem. 20: 24

Paratype: 029965 (1, dry) (GTU7783; incorrectly published as G7782)

San Evaristo Bay, Baja California, Mexico

Paratype: 036395 (4, dry) (SU7554)

Amortajada Bay, Gulf of California, Mexico

## Family Pocilloporidae

*Pocillopora palmata* Palmer, 1928

Proc. Amer. Phil. Soc. 67(1): 31

Syntype: 036393 (fragment, dry) (SU7556)

Puerto Angel, Oaxaca, Mexico

## Family Rhizangiidae

*Astrangia browni* Palmer, 1928

Proc. Amer. Phil. Soc. 67(1): 27

Paratype: 036392 (fragment, dry) (SU7553)

off Puerto Angel, Oaxaca, Mexico

*Astrangia (Astrangia) caboensis* Durham, 1947

Geol. Soc. Amer. Mem. 20: 26

Holotype: 029959 (1, dry) (GTU7843)

San Jose del Cabo Bay, Baja California, Mexico

*Astrangia (Astrangia) lajollanensis* Durham, 1947

Geol. Soc. Amer. Mem. 20: 28

Paratype: 029964 (1, dry) (GTU29964)

Ensenada, Baja California, Mexico

*Astrangia (Astrangia) tangolaensis* Durham, 1947

Geol. Soc. Amer. Mem. 20: 30

Holotype: 029968 (1, dry) (GTU7838)

Tangola Tangola Bay, Oaxaca, Mexico

## Phylum PLATYHELMINTHES

## Class Turbellaria

## Order ACOELA

## Family Convolutidae

*Polychoerus carmelensis* Costello and Costello, 1938

Ann. Mag. Nat. Hist., ser. 11, 1(1): 149

Paratypes: 025095 (13, 75% EtOH)

Monterey County, California

## Order NEORHABDOCOELA

## Family Umagillidae

*Syndisyrix franciscanus* Lehman, 1946

Biol. Bull. 91(3): 296

Paratypes: 018829 (162, 75% EtOH) (IZ161)

Pacific Grove, California

## Order POLYCLADIDA

## Family Euryleptidae

*Eurylepta aurantiaca* Heath and McGregor, 1912

Proc. Acad. Nat. Sci. Phila. 64: 481

Designated in Hyman, L.H. (1953) Bull. Amer. Mus. Nat.

Hist. 100(2): 372

Lectotype: 021870 (1, micro. slide) (IZ234)

Carmel, California

*Stylostomum sanjuaniana* Holleman, 1972

Proc. Biol. Soc. Wash. 85(34): 409

Paratype: 019424 (1, micro. slide)

San Juan Island, Washington

## Family Leptoplanidae

*Copidoplana tripyla* Hyman, 1953

Bull. Amer. Mus. Nat. Hist. 100(2): 339

Holotype: 021625 (1, micro. slide) (IZ235, SU5640)

Monterey Bay, California

*Diplandros singularis* Hyman, 1953

Bull. Amer. Mus. Nat. Hist. 100(2): 341

Holotype: 021626 (1, 3 micro. slides) (IZ236, SU5639)

La Jolla, California

*Leptoplana acticola* Boone, 1929

Ann. Mag. Nat. Hist., ser. 10, 3: 38

Holotype: 021619 (1, 4 micro. slides) (IZ237)

Monterey Bay, California

Paratypes: 021620 (2, 2 micro. slides) (IZ238, 239)

Monterey Bay, California

*Leptoplana saxicola* Heath and McGregor, 1912

Proc. Acad. Nat. Sci. Phila. 64: 467

Designated in Hyman, L. H. (1953) Bull. Amer. Mus. Nat. Hist. 100(2): 319

Lectotype: 021867 (1, 3 micro. slides) (IZ240, SU5641)

Monterey Bay, California

*Leptoplana sciophila* Boone, 1929

Ann. Mag. Nat. Hist., ser. 10, 3: 40

Holotype: 021621 (1, 2 micro. slides) (IZ241)

San Diego County, California

Paratypes: 021622 (2, 2 micro. slides) (IZ242, 243)

San Diego County, California

*Phylloplana chloranota* Boone, 1929

Ann. Mag. Nat. Hist., ser. 10, 3: 43

Holotype: 021623 (1, micro. slide) (IZ244)

Monterey Bay, California

*Phylloplana litoricola* Heath and McGregor, 1912

Proc. Acad. Nat. Sci. Phila. 64: 472

Designated in Hyman, L. H. (1953) Bull. Amer. Mus. Nat. Hist. 100(2): 336

Lectotype: 021868 (1, micro. slide) (IZ245, SU5627)

Monterey Bay, California

Paralectotypes: 021869 (4, 4 micro. slides) (IZ246-249)

Monterey Bay, California

*Stylochoplana heathi* Boone, 1929

Ann. Mag. Nat. Hist., ser. 10, 3: 35

Holotype: 021618 (1, micro. slide) (IZ250)

Monterey Bay, California

## Family Pericelidae

*Pericelis hymanae* Poulter, 1974*Biology of the Turbellaria*: 95

Paratypes: 024013 (2, 75% EtOH)

Oahu, Hawaii

Paratype: 024014 (1, 75% EtOH)

Oahu, Hawaii

Paratype: 024015 (1, 75% EtOH)

Oahu, Hawaii

Paratype: 024016 (1, 75% EtOH)

Oahu, Hawaii

Paratypes: 024017 (3, 75% EtOH)

Oahu, Hawaii

## Family Planoceridae

*Planocera californica* Heath and McGregor, 1912

Proc. Acad. Nat. Sci. Phila. 64: 459

Designated in Hyman, L. H. (1953) Bull. Amer. Mus. Nat. Hist. 100(2): 347

Lectotype: 021865 (1, micro. slide) (IZ251, SU5632)

Monterey Bay, California

*Planocera sandiegensis* Boone, 1929

Ann. Mag. Nat. Hist., ser. 10, 3: 3

Holotype: 021616 (1, micro. slide) (IZ253)

San Diego County, California

Paratypes: 021617 (2, 2 micro. slides) (IZ254, 255)

San Diego County, California

## Family Prosthostomidae

*Prosthostomum (Lurymare) katoi* Poulter, 1975

Pac. Sci. 29(4): 323

Paratype: 002350 (1, 75% EtOH)

Oahu Island, Hawaii

## Phylum ANNELIDA

## Class Polychaeta

## Order PHYLLODOCIDA

## Family Phyllodocidae

*Phyllodoce hartmanae* Blake and Walton, 1977*Essays on polychaetous annelids in memory of Dr. Olga Hartman*: 308

Paratype: 019428 (1, 75% EtOH)

Gulf of the Farallones, California

Paratype: 019430 (1, 75% EtOH)

Gulf of the Farallones, California

Paratype: 019431 (1, 75% EtOH)

Gulf of the Farallones, California

*Phyllodoce medipapillata* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 237

Holotype: 001038 (1, 75% EtOH) (IZ53)

vicinity of Monterey Bay, California

## Family Polynoidae

*Harmothoe adventor* Skogsberg, 1928

Ann. Mag. Nat. Hist., ser. 10, 1: 213

Holotype: 024049 (1, 75% EtOH) (IZ682, GTY6858)

Monterey Bay, California

*Tenonia kitsapensis* Nichols, 1969

Proc. Biol. Soc. Wash. 82: 205

Paratypes: 024208 (6, 75% EtOH)

Port Madison, Washington

Paratypes: 024209 (3, 75% EtOH)

Port Madison, Washington

Paratypes: 024210 (9, 75% EtOH)

Port Madison, Washington

Paratype: 024211 (1, 75% EtOH)

Port Washington, Washington

Paratypes: 024212 (2, 75% EtOH)

Port Madison, Washington

Paratypes: 024213 (4, 75% EtOH)

Port Madison, Washington

Paratypes: 024214 (2, 75% EtOH)

Port Madison, Washington

Paratypes: 024215 (2, 75% EtOH)

Port Madison, Washington

Paratype: 024216 (1, 75% EtOH)

Seattle, Washington

Paratype: 024217 (1, 75% EtOH)

Port Madison, Washington

Paratypes: 024218 (3, 75% EtOH)

Port Madison, Washington

Paratypes: 024220 (13, 75% EtOH)  
Port Madison, Washington

Family Syllidae

*Syllides minutus* Blake and Walton, 1977

*Essays on polychaetous annelids in memory of Dr. Olga Hartman*: 311

Paratype: 019429 (1, 75% EtOH)  
Gulf of the Farallones, California

*Trypanosyllis intermedia* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 236  
Holotype: 020550 (1, 75% EtOH) (IZ48, SU5522)  
Monterey Bay, California

*Typosyllis farallonensis* Blake and Walton, 1977

*Essays on polychaetous annelids in memory of Dr. Olga Hartman*: 310

Holotype: 019427 (1, 75% EtOH)  
Gulf of the Farallones, California  
Paratype: 019425 (1, 75% EtOH)  
Gulf of the Farallones, California  
Paratype: 019426 (1, 75% EtOH)  
Gulf of the Farallones, California

Order AMPHINOMIDA  
Family Euphrosinidae

*Euphrosyne bicirrata* Moore, 1905

Proc. Acad. Nat. Sci. Phila. 57: 532  
Syntype: 020705 (1, 75% EtOH)  
Bowen Island, British Columbia

Order EUNICIDA  
Family Arabellidae

*Drilonereis nuda* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 254  
Holotype: 020371 (1, 75% EtOH) (IZ56, SU5530)  
Monterey Bay, California  
Paratypes: 020361 (3, 75% EtOH) (IZ77, SU5584)  
Monterey Bay, California

Family Dorvilleidae

*Stauronereis moniloceras* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 256  
Holotype: 020552 (1, 75% EtOH) (IZ54, SU5509)  
Point Pinos, California  
Paratypes: 020553 (2 in pieces, 75% EtOH)  
Monterey Bay, California

Family Eunicidae

*Eunice biannulata* Moore, 1904

Proc. Acad. Nat. Sci. Phila. 56: 487  
Holotype: 019712 (1, 75% EtOH) (IZ35, SU5511)  
San Diego, California

*Eunice interrupta* Treadwell, 1906

U.S. Fish Comm. Bull. 23(3) (for 1903): 1167  
Paratype: 018795 (1 fragmented, 75% EtOH) (IZ74, SU5501)  
Laysan Island, Leeward Islands, Hawaii

*Eunice (Eriphyle) patolooides* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 246  
Holotype: 020554 (1, 75% EtOH) (IZ58, SU5519)  
San Diego, California

*Marphysa californica* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 251

Holotype: 020357 (1, 75% EtOH) (IZ37, SU5518)  
San Diego, California

*Marphysa stylobranchiata* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 249  
Holotype: 019723 (1, 75% EtOH) (IZ64, SU5529)  
Point Pinos, California  
Paratypes: 019722 (3, 75% EtOH) (IZ78, SU5583)  
Point Pinos, California

Family Lumbrineridae

*Lumbriconereis erecta* Moore, 1904

Proc. Acad. Nat. Sci. Phila. 56: 490  
Holotype: 019713 (1, 75% EtOH) (IZ45, SU5503)  
San Diego, California  
Paratypes: 019711 (3, 75% EtOH) (IZ72, SU5578)  
San Diego, California

Family Onuphidae

*Diopatra californica* Moore, 1904

Proc. Acad. Nat. Sci. Phila. 56: 484  
Holotype: 019703 (1, 75% EtOH) (IZ36, SU5521)  
San Diego, California  
Paratype: 020548 (1, 75% EtOH) (SU5552)  
San Diego, California

Order ORBINIDA

Family Orbiniidae

*Aricia johnsoni* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 260  
Holotype: 020564 (1, 75% EtOH) (IZ49, SU5527)  
Moss Beach, Monterey County, California

*Naineris longa* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 264  
Holotype: 019715 (1, 75% EtOH) (IZ51, SU5528)  
Point Pinos, California  
Paratype: 020557 (1, 75% EtOH) (SU5585)  
San Diego, California  
Paratypes: 020558 (6, 75% EtOH) (IZ75, SU5595)  
Monterey Bay, California  
Paratype: 020559 (1, 75% EtOH)  
Point Pinos, California  
Paratypes: 020563 (3, 75% EtOH)  
Monterey Bay, California

*Naineris robusta* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 262  
Holotype: 019716 (1, 75% EtOH) (IZ59, SU5557)  
San Diego, California  
Paratypes: 019717 (2, 75% EtOH) (IZ60, SU5558)  
San Diego, California  
Paratype: 020565 (1, 75% EtOH) (IZ61, SU5596)  
Point Pinos, California

Order SPIONIDA

Family Spionidae

*Aurospio dibranchiata* Maciolek, 1981

Proc. Biol. Soc. Wash. 94(1): 230  
Paratypes: 015962 (10, 75% EtOH)  
Argentine Basin, South Atlantic Ocean

*Carazziella calafia* Blake, 1979

Proc. Biol. Soc. Wash. 92(3): 471  
Paratypes: 024058 (2, 75% EtOH) (IZ711)  
Monterey Bay, California



- Paratypes: 024058 (2, 75% EtOH) (IZ711)  
Monterey Bay, California
- Paratypes: 024059 (5, 75% EtOH) (IZ713)  
Monterey Bay, California
- Paratype: 024060 (1, 75% EtOH) (IZ712)  
Monterey Bay, California
- Paratype: 024061 (1, 75% EtOH) (IZ714)  
Monterey Bay, California
- Polydora allopbris* Light, 1970b  
Proc. Calif. Acad. Sci., ser. 4, 37(14): 460  
Holotype: 018812 (1, 75% EtOH) (IZ381)  
"The Pinnacles," Monterey County, California
- Paratype: 018813 (1, 75% EtOH) (IZ382)  
"The Pinnacles," Monterey County, California
- Paratypes: 018814 (10+, 75% EtOH) (IZ383)  
"The Pinnacles," Monterey County, California
- Paratype: 018815 (1, 75% EtOH) (IZ384)  
Carmel, California
- Paratype: 018816 (1, 75% EtOH) (IZ385)  
"The Pinnacles," Monterey County, California
- Paratypes: 018817 (10+, 75% EtOH) (IZ386)  
Point Lobos, California
- Paratype: 018818 (1, 75% EtOH) (IZ387)  
Point Lobos, California
- Polydora brachycephala* Hartman, 1936  
Univ. Calif. Publ. Zool. 41(6): 48  
Paratypes: 019432 (2, 75% EtOH) (IZ680)  
Marin County, California
- Paratype: 019433 (1, 75% EtOH) (IZ566)  
Marin County, California
- Polydora narica* Light, 1969  
Proc. Calif. Acad. Sci., ser. 4, 36(18): 532  
Holotype: 018819 (1, 75% EtOH) (IZ380)  
Monterey County, California
- Polydora wobberi* Light, 1970a  
Bull. So. Calif. Acad. Sci. 69(2): 74  
Holotype: 018693 (1, 75% EtOH) (IZ304)  
Gulf of California, Mexico
- Pseudopolydora gibbsi* Light, 1974  
Proc. Biol. Soc. Wash. 87(34): 389  
Paratype: 019354 (1, slide mount of anterior end) (IZ676)  
Guadalcanal, Solomon Islands
- Paratype: 019355 (1, slide mount of anterior end) (IZ677)  
Guadalcanal, Solomon Islands
- Paratype: 019356 (1, slide mount of posterior end) (IZ678)  
Guadalcanal, Solomon Islands
- Pseudopolydora kempii californica* Light, 1969  
Proc. Calif. Acad. Sci., ser. 4, 36(18): 542  
Holotype: 018820 (1, 75% EtOH) (IZ377)  
Bollinas Lagoon, California
- Paratype: 018821 (1, 75% EtOH, 4 micro. slides) (IZ378)  
Bollinas Lagoon, California
- Paratype: 018822 (1, 75% EtOH) (IZ379)  
Bollinas Lagoon, California
- Order CIRRATULIDA  
Family Cirratulidae
- Cirratulus luxuriosus* Moore, 1904  
Proc. Acad. Nat. Sci. Phila. 56: 493  
Holotype: 019708 (1, 75% EtOH) (IZ52, SU5506)  
San Diego, California
- Paratype: 019709 (1, 75% EtOH) (IZ76, SU5546)  
San Diego, California
- Cirratulus spirabanchus* Moore, 1904  
Proc. Acad. Nat. Sci. Phila. 56: 492  
Holotype: 019706 (1, 75% EtOH) (IZ63, SU5505)  
San Diego, California
- Paratypes: 019714 (4, 75% EtOH) (IZ226)  
San Diego, California
- Tharyx multifilis* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 267  
Holotype: 020709 (1, 75% EtOH) (IZ55, SU5502)  
San Diego, California
- Order FLABELLIGERIDA  
Family Flabelligeridae
- Brada pilosa* Moore, 1906  
Proc. Acad. Nat. Sci. Phila. 58: 231  
Paratype: 020712 (1, 75% EtOH)  
Funter Bay, Alexander Archipelago, Alaska
- Flabelligera commensalis* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 286  
Holotype: 020706 (1, 75% EtOH) (IZ41, SU5524)  
Monterey Bay, California
- Paratype: 020707 (1, 75% EtOH) (IZ42, SU5525)  
Monterey Bay, California
- Trophonia capulata* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 284  
Holotype: 019721 (1, 75% EtOH) (IZ40, SU5514)  
San Diego Bay, California
- Order OPHELIDIDA  
Family Scalibregmidae
- Sclerocheilus pacificus* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 282  
Holotype: 020713 (1, 75% EtOH) (IZ57, SU5526)  
Third Beach Point, Monterey County, California
- Order CAPITELLIDA  
Family Capitellidae
- Dasybranchus glabrus* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 280  
Holotype: 020380 (1, 75% EtOH) (IZ46, SU5512)  
San Diego Bay, California
- Eunotomastus gordiodes* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 278  
Holotype: 019720 (1, 75% EtOH) (IZ47, SU5513)  
San Diego, California
- Paratype: 019719 (1, 75% EtOH) (IZ73, SU5517)  
San Diego, California
- Notomastus tenuis* Moore, 1909  
Proc. Acad. Nat. Sci. Phila. 61: 277  
Holotype: 019718 (1, 75% EtOH) (IZ65, SU5508)  
San Diego, California
- Family Maldanidae
- Maldane coronata* Moore, 1903  
Proc. Acad. Nat. Sci. Phila. 55: 483  
Paratype: 016318 (1, 75% EtOH) (SU5606)  
Manazuru Zaki, Honshu, Japan
- Maldane disparidentata* Moore, 1904  
Proc. Acad. Nat. Sci. Phila. 56: 494  
Syntype: 019707 (1, 75% EtOH) (IZ43, SU5504)  
San Diego, California

## Order TEREBELLIDA

## Family Terebellidae

*Pista (Scionopsis) alata* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 273

Holotype: 020708 (1, 75% EtOH) (IZ50, SU5507)

San Diego, California

*Pista elongata* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 270

Holotype: 020379 (1, 75% EtOH) (IZ44, SU5520)

San Diego, California

Paratypes: 020715 (4, 75% EtOH) (IZ71, SU5533)

San Diego, California

*Polycirrus californicus* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 276

Holotype: 005272 (1, 75% EtOH) (IZ39, SU5515)

San Diego, California

*Terebella (Schmardanella) californica* Moore, 1904

Proc. Acad. Nat. Sci. Phila. 56: 496

Holotype: 019704 (1, 75% EtOH) (IZ38, SU5510)

San Diego, California

Paratypes: 019705 (8, 75% EtOH) (IZ70, SU5539)

San Diego, California

## Order SABELLIDA

## Family Sabellidae

*Distylia rugosa* Moore, 1904

Proc. Acad. Nat. Sci. Phila. 56: 499

Holotype: 019710 (1, 75% EtOH) (IZ62, SU5516)

San Diego, California

Paratype: 020555 (1, 75% EtOH)

San Diego, California

## Family Serpulidae

*Protula superba* Moore, 1909

Proc. Acad. Nat. Sci. Phila. 61: 290

Paratype: 020556 (1, 75% EtOH) (SU5541)

vicinity Monterey Bay, California

## Order PROTODRILIDA

## Family Saccocirridae

*Saccocirrus sonomacis* Martin, 1977

Trans. Amer. Microsc. Soc. 96(1): 98

Paratypes: 019344 (5 male, 5 female, 75% EtOH)

Sonoma County, California

## Class Oligochaeta

## Order HAPLOTAXIDA

## Family Megascolecidae

*Plutellus blacki* MacNab and McKey-Fender, 1952

Wasmann J. Biol. 10(3): 347

Holotype: 019515 (1, 75% EtOH) (IZ10)

Marion County, Oregon

*Plutellus davisii* MacNab and McKey-Fender, 1952

Wasmann J. Biol. 10(3): 344

Holotype: 018181 (1, 75% EtOH) (IZ11)

near Brookings, Oregon

## Family Octochaetidae

*Ramiellona balantina* Gates, 1962

Proc. Calif. Acad. Sci., ser. 4, 31(8): 202

Syntypes: 018636 (1 entire, 2 sectioned, 75% EtOH) (IZ67)

near Totonicapan, Guatemala

*Ramiellona guatemalana* Gates, 1962

Proc. Calif. Acad. Sci., ser. 4, 31(8): 195

Syntypes: 018635 (32 in pieces and whole, 75% EtOH) (IZ66)

near Totonicapan, Guatemala

*Ramiellona mexicana* Gates, 1962

Proc. Calif. Acad. Sci., ser. 4, 31(8): 209

Syntypes: 018638 (1 whole, 1 cut, piece of body wall, 75% EtOH) (IZ69)

Dos Rios, Tehuantepec, Mexico

*Ramiellona strigosa* Gates, 1962

Proc. Calif. Acad. Sci., ser. 4, 21(8): 206

Syntypes: 018637 (1 whole, 6 pieces, 75% EtOH) (IZ68)

near Totonicapan, Guatemala

## Phylum ECHIURA

## Order ECHIUROINEA

## Family Bonelliidae

*Bonelliopsis alaskana* Fisher, 1946

Proc. U. S. Nat. Mus. 96: 252

Paratype: 024612 (1, 75% EtOH)

Unalaska Island, Alaska

## Family Echiuridae

*Arhynchite inamoenus* Fisher, 1946

Proc. U. S. Nat. Mus. 96: 247

Paratypes: 024550 (2, 75% EtOH)

Monterey Bay, California

*Ochetostoma octomyotum* Fisher, 1946

Proc. U. S. Nat. Mus. 96: 240

Paratypes: 024561 (4, 75% EtOH)

Newport Bay, California

Paratypes: 024564 (2, 75% EtOH)

Newport Bay, California

## Order XENOPNEUSTA

## Family Urechidae

*Listriolobus pelodes* Fisher, 1946

Proc. U. S. Nat. Mus. 96: 234

Paratypes: 024546 (6, 75% EtOH)

Monterey Bay and Newport Bay, California (mixed lot)

Paratypes: 024547 (3, 75% EtOH)

Monterey Bay, California

Paratypes: 024548 (31, 75% EtOH)

off Balboa, California

## Phylum SIPUNCULA

## Family Golfingiidae

*Dendrostomum dyscritum* Fisher, 1952

Proc. U. S. Nat. Mus. 102(3306): 417

Paratypes: 024153 (2, 75% EtOH)

Monterey Bay, California

*Dendrostomum schmitti* Fisher, 1952

Proc. U. S. Nat. Mus. 102(3306): 422

Paratypes: 024152 (8, 75% EtOH)

Independencia Bay, Peru

## Family Sipunculidae

*Siphonomecus ingens* Fisher, 1947

Proc. U. S. Nat. Mus. 97(3218): 365

Paratypes: 024221 (8, 75% EtOH)

Morro Bay, California



Paratype: 024222 (1 juvenile, 75% EtOH)

Elkhorn Slough, California

*Siphonosoma parvum* Fischer, 1928

Zool. Anz. 76(3/6): 141

Paratypes: 024615 (2, 75% EtOH) (USNM97507)

Jaluit Island (?), Marshall Islands

Phylum ARTHROPODA

Class Pycnogonida

Family Nymphonidae

*Nymphon heterodenticulatum* Hedgpeth, 1941

Amer. Midl. Nat. 25(2): 447

Holotype: 018477 (1 female, 75% EtOH) (IZ151, SU3215)

Santa Catalina Island, California

Paratype: 018478 (1 female, 75% EtOH) (IZ81, SU3216)

Santa Catalina Island, California

Family Pallenidae

*Pallene pacifica* Hedgpeth, 1939

Amer. Midl. Nat. 22(2): 460

Holotype: 018633 (1 female, 75% EtOH) (IZ79, SU3211)

San Luis Obispo County, California

Paratype: 018634 (1 female, 75% EtOH) (IZ80, SU3212)

San Luis Obispo County, California

Class Crustacea

Subclass Ostracoda

Order PODOCOPINA

Family Cytherideidae

*Cythereis aurita* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 120

Holotype: 021885 (1 male, 4 micro. slides) (IZ357)

Pacific Grove, California

Paratype: 021886 (1 male, micro. slide) (IZ358)

Monterey Bay, California

*Cythereis discophora* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 83

Holotype: 021887 (1 female, 4 micro. slides) (IZ342)

Port Louis, Falkland Islands

Paratype: 021888 (1 male, micro. slide) (IZ344)

Port Louis, Falkland Islands

Paratype: 021889 (1 female, micro. slide) (IZ343)

Port Louis, Falkland Islands

*Cythereis ephippiata* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 100

Holotype: 021890 (1 male, 3 micro. slides) (IZ350)

Port Louis, Falkland Islands

Paratype: 021891 (1 male, micro. slide) (IZ351)

Port Louis, Falkland Islands

*Cythereis falcata* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 137

Holotype: 021892 (1, 3 micro. slides) (IZ360)

South Georgia Island

*Cythereis frequens* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 95

Holotype: 021893 (1 male, 4 micro. slides) (IZ348)

South Georgia Island

Paratype: 021894 (1 female, micro. slide) (IZ349)

South Georgia Island

*Cythereis glauca* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 110

Holotype: 021895 (1 male, 3 micro. slides) (IZ354)

Carmel Bay, California

Paratype: 021896 (1 female, micro. slide) (IZ355)

Carmel Bay, California

*Cythereis igandersoni* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 24

Holotype: 021897 (1 female, 4 micro. slides) (IZ327)

Tierra del Fuego, Chile

*Cythereis longiductus* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 78

Holotype: 021898 (1 male, 3 micro. slides) (IZ340)

South Georgia Island

Paratype: 021899 (1 male, 2 micro. slides) (IZ341)

South Georgia Island

Paratype: 025885 (1 male, dry)

South Georgia Island

*Cythereis megalodiscus* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 90

Holotype: 021900 (1 male, 2 micro. slides) (IZ347)

South Georgia Island

*Cythereis mesodiscus* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 87

Holotype: 021901 (1 male, 4 micro. slides) (IZ345)

Puerto Madryn, Argentina

Paratype: 021902 (1 male, micro. slide) (IZ346)

Tierra del Fuego, Chile

*Cythereis montereyensis* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 56

Holotype: 021903 (1 male, 3 micro. slides) (IZ332)

Carmel Bay, California

Paratype: 021904 (1 female, 1 micro. slide) (IZ333)

Carmel Bay, California

*Cythereis pacifica* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 68

Holotype: 021905 (1 male, 4 micro. slides) (IZ334)

Monterey Bay, California

Paratype: 021906 (1 male, micro. slide) (IZ335)

Carmel Bay, California

*Cythereis platycopa* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 116

Holotype: 021907 (1 male, 5 micro. slides) (IZ356)

Monterey Bay, California

*Cythereis polia* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 35

Holotype: 021908 (1 male, 4 micro. slides) (IZ331)

Tierra del Fuego, Chile

*Cythereis radiata* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 30

Holotype: 021909 (1 male, 4 micro. slides) (IZ329)

Magellan Straits, Chile

Paratype: 021910 (1 female on slide with holotype) (IZ330)

Magellan Straits, Chile

*Cythereis recurvirostra* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 108

Holotype: 021911 (1 male, 3 micro. slides) (IZ353)

Burdwood Bank, Falkland Islands

*Cythereis robusta* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 27

Holotype: 021912 (1 female, 2 micro. slides) (IZ328)

South Georgia Island

*Cythereis spinifera* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 130

Holotype: 021913 (1 male, micro. slide) (IZ359)

South Georgia Island

Paratype: 024229 (1 male, micro. slide) (IZ359)

South Georgia Island

*Cythereis taeniata* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 72

Holotype: 021914 (1 male, 4 micro. slides) (IZ336)

Port Louis, Falkland Islands

Paratypes: 021915 (2, 2 micro. slides) (IZ337-338)

Port Louis, Falkland Islands

*Cythereis taeniata deliciosa* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 77

Holotype: 021916 (1 female, 4 micro. slides) (IZ339)

Puerto Harris, Tierra del Fuego, Chile

*Cythereis theeli* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 106

Holotype: 021917 (1 male, 4 micro. slides) (IZ352)

Puerto Madryn, Argentina

*Cythereis torquata* Skogsberg, 1928

Occ. Pap. Calif. Acad. Sci. 15: 19

Holotype: 021918 (1 male, micro. slide) (IZ324)

Puerto Condor, Tierra del Fuego, Chile

Paratype: 021919 (1 female, micro. slide) (IZ326)

Puerto Condor, Tierra del Fuego, Chile

Paratype: 021920 (1 female, micro. slide) (IZ325)

Tierra del Fuego, Chile

Subclass Copepoda

Order CALANOIDA

Family Megacalanidae

*Bathycalanus sverdrupi* Johnson, 1958

Proc. Calif. Acad. Sci., ser. 4, 29(6): 258

Paratype: 018473 (1 female, 75% EtOH) (G34987, IZ008)  
near Marshall Islands

Order CALIGOIDA

Family Caligidae

*Lepeophtheirus insignis* Wilson, 1908

Proc. U. S. Nat. Mus. 35: 444

Syntypes: 024489 (6, 75% EtOH)

San Diego County, California, from *Mola mola*

Family Lernaeceridae

*Serpentisaccus magnifica* Blasiola, 1979b

J. Parasit. 65(4): 662

Holotype: 019343 (1, micro. slide) (IZ707)

Cebu, Philippine Islands, on *Nemateleotris magnifica*

Order LERNAEOPODOIDA

Family Lernaepodidae

*Lernaepoda gibber* Wilson, 1908

Proc. U. S. Nat. Mus. 35: 469

Syntypes: 024491 (5, 75% EtOH)

Attu Island, Alaska

Subclass Cirripedia

Order ACROTHORACICA

Family Cryptophyalidae

*Cryptophyalus coronatus* Tomlinson, 1960

Bull. I. F. A. N. 22A(2): 402

Paratypes: 019636 (6-8, 75% EtOH)

Goree Island, Senegal, in *Thais neritoides*

Paratype: 020202 (1, micro. slide) (G12336)

Goree Island, Senegal, in *Haliotis tuberculata*

*Cryptophyalus epacrus* Tomlinson, 1973

Wasmann J. Biol. 31(2): 283

Paratypes: 019730 (3, 75% EtOH)

Tikahau Atoll, Tuamotu Archipelago, in *Turbo setosus*

*Cryptophyalus heterodontus* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 90

Paratype: 018680 (1, 75% EtOH)

Heron Island, Australia, in *Tridacna maxima*

*Cryptophyalus newmani* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 104

Paratype: 018681 (1, 75% EtOH)

Wake Island, in *Turbo lajonkairi*

*Cryptophyalus rossi* Tomlinson, 1973

Wasmann J. Biol. 31(2): 272

Paratypes: 019728 (10 +, 75% EtOH)

Bikini Atoll, Marshall Islands, in *Turbo setosus*

*Cryptophyalus unguiculus* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 112

Paratype: 018682 (1, 75% EtOH)

Necker Island, Line Islands, in *Thais aperta*

*Cryptophyalus wainwrighti* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 97

Holotype: 018679 (1 female, with 3 males, 70% EtOH with 5% glycerine)

Soldado Bay, Sonora, Mexico, in *Thais triseriatis*

Paratypes: 029132 (several, 75% EtOH)

Mazatlan, Mexico, in *Thais haemostoma*

*Cryptophyalus zulloi* Tomlinson, 1973

Wasmann J. Biol. 31(2): 280

Paratypes: 019729 (6 (? +), 75% EtOH)

Tikahau Atoll, Tuamotu Archipelago, in *Turbo setosus*

Family Lithoglyptidae

*Berndtia nodosa* Tomlinson, 1967

Bull. Nat. Mus. Singapore 33(15): 101

Paratype: 019634 (1, 75% EtOH) (IZ269)

?Singapore, in *Psammocora contigua*

Paratype: 019635 (1, 75% EtOH) (IZ270)

?Singapore, in *Psammocora contigua*

*Berndtia purpurea* Utinomi, 1950

Mem. Coll. Sci., Univ. Kyoto, ser. B, 19(3): 87

Paratypes: 029833 (2, dry) (GTY10558)

Tanabe Bay, Honshu, Japan, in *Leptastrea purpurea*

*Kochlarine ulula* Tomlinson, 1973

Wasmann J. Biol. 31(2): 266

Paratypes: 019727 (2, 75% EtOH)

Namonuito Atoll, Caroline Islands

*Lithoglyptes hirsutus* Tomlinson, 1963

Pac. Sci. 17(3): 299

Paratype: 028319 (1, micro slide) (GTY12537)

Kaneohe Bay, Oahu, Hawaii, in *Porites compressa*

*Lithoglyptes mitis* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 52

Paratypes: 029133 (about 10, 75% EtOH)

Necker Island, Leeward Islands, in *Thais aperta*

*Lithoglyptes spinatus* Tomlinson and Newman, 1960

Proc. U. S. Nat. Mus. 112(3445): 519

Paratype: 020203 (1, micro. slide) (GTY12337)

Salt Gut, Jamaica

*Weltneria aapta* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 44

Paratype: 019726 (1, 75% EtOH) (IZ361)

Port Macquarie, New South Wales, Australia, from *Berylsma waitii*

*Weltneria reticulata* Tomlinson, 1969

Bull. U. S. Nat. Mus. 296: 39

Paratypes: 019725 (3, 75% EtOH)

Heron Island, Australia, in *Tridacna maxima*

Family Trypetesidae

*Trypetesa lateralis* Tomlinson, 1953

J. Wash. Acad. Sci. 43(11): 374

Paratype: 020201 (1, micro. slide) (GTY9857)

Point Arena, California, in *Tegula*

Order ASCOTHORACIA

Family Dendrogasteridae

*Dendrogaster arbusculus* Fisher, 1911

Bull. U. S. Nat. Mus. 76: 404

Holotype: 013159 (3 vials, 75% EtOH; 5 micro. slides) (IZ1132)

Santa Cruz Island, California

*Dendrogaster arctica* Korschelt, 1933

Zool. Jahrb. Abt. Syst. 64: 32

Syntypes: 032074 (broken female and male, 75% EtOH; female, 1 micro. slide)

Bering Sea, from *Leptasterias groenlandica**Dendrogaster punctatus* Grygier, 1982

Proc. Calif. Acad. Sci. 42(18): 443

Paratypes: 018895 (1 male, many female and larvae, 75% EtOH; 4 micro. slides)

Pt. Pinos Lt. House, California, from *Poraniopsis inflata*

Order THORACICA

Family Balanidae

*Balanus amphitrite franciscanus* Rogers, 1949

J. Ent. Zool. 41(2): 29

Holotype: 029825 (1, dissected, dry) (GTY9440)

San Francisco, California

Paratypes: 029826 (2, dry) (GTY9441-9442)

San Francisco Bay, California

*Balanus amphitrite herzi* Rogers, 1949

J. Ent. Zool. 41(2): 28

Holotype: 029827 (1, dissected, dry) (GTY9443)

San Francisco Bay, California

*Balanus amphitrite saltonensis* Rogers, 1949

J. Ent. Zool. 41(2): 25

Holotype: 029828 (1, dissected, dry) (GTY9438)

Salton Sea, California

Paratype: 029829 (1, dissected, dry) (GTY9439)

Salton Sea, California

*Balanus (Hexacreusia) durhami* Zullo, 1961

Veliger 4(2): 71

Paratype: 029824 (1, micro. slide) (GTY12372)

Puertecitos, Baja California

*Balanus panamensis* Rogers, 1948

Bull. So. Calif. Acad. Sci. 47(3): 95

Holotype: 029059 (1, dry) (GTY9434)

Panama, Pacific coast

Paratype: 029060 (1 disarticulated, dry) (GTY9436)

Panama, Pacific Coast

Paratype: 029061 (1, dry) (GTY9435)

Panama, Pacific Coast

Paratype: 029062 (1, dry) (GTY9437)

Panama, Pacific Coast

*Balanus tintinnabulum clippertonensis* Zullo, 1969

Proc. Calif. Acad. Sci., ser. 4, 36(16): 501

Paratypes: 029823 (2, dry; 2 micro. slides) (GTY13153-13154)

Clipperton Island

## Subclass Malacostraca

Superorder PERACARIDA

Order TANAIACEA

Family Apeudeidae

*Synapseudes intumescens* Menzies, 1949

Proc. U. S. Nat. Mus. 99(3251): 510

Paratypes: 017630 (11 male, 19 female, 75% EtOH) (PMS1216)

Tomales Point, California

Paratype: 017636 (1 female juvenile, 75% EtOH) (PMS1209)

Tomales Point, California

Family Tanaidae

*Tanais stanfordi* Richardson, 1901

Proc. Wash. Acad. Sci. 3: 565

Paratypes: 021786 (20 +, 75% EtOH) (IZ89)

Clipperton Island

Order ISOPODA

Family Anthuridae

*Colanthur squamosissima* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 114

Paratypes: 016820 (2 male, 4 female, 1 juvenile, 75% EtOH) (PMS1243)

Tomales Bay, California

*Cyathura munda* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 111

Paratypes: 016612 (2 female, 75% EtOH) (PMS1250)

Tomales Point, California

*Paranthura elegans* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 106

Paratype: 016811 (1 female, 75% EtOH) (PMS1244)

Tomales Point, California

Paratype: 016812 (1 female, 75% EtOH) (PMS1245)

Moss Beach, San Mateo County, California

Paratypes: 016813 (1 male, 2 juvenile, 75% EtOH)

(PMS1246)

Tomales Point, California

Paratypes: 016814 (1 male, 1 female, 75% EtOH) (PMS1247)

Tomales Point, California

Paratype: 016815 (1 juvenile, 75% EtOH) (PMS1248)

Tomales Point, California

Family Antiasidae

*Antias hirsutus* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 143

Paratypes: 017694 (2 male, 1 female part, 75% EtOH) (PMS1219)

Tomales Bay, California

Family Idoteidae

*Erichsonella filiformis isabelensis* Menzies, 1951b

Proc. U. S. Nat. Mus. 101(3289): 576

Paratypes: 017002 (2 female, 75% EtOH) (PMS1282)

Port Aransas, Texas

Paratype: 017003 (1 female, 75% EtOH) (PMS1281)

Port Aransas, Texas

Paratype: 017004 (1 female, 75% EtOH) (PMS1220)

Port Isabel, Texas

*Synidotea media* Iverson, 1972

Proc. Biol. Soc. Wash. 85(47): 542

Holotype: 019340 (1 female, 75% EtOH) (IZ563)

Monterey County, California

Paratype: 019341 (1, 75% EtOH) (IZ564)

Monterey County, California

Paratype: 019342 (1, 75% EtOH) (IZ565)

Monterey County, California

Family Jaeropsidae

*Jaeropsis dubia* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 147

Paratype: 017193 (1 female, 75% EtOH) (PMS1229)

Dillon Beach, Marin County, California

Paratypes: 017194 (2 male, 75% EtOH) (PMS1230)

Dillon Beach, Marin County, California

Paratypes: 017195 (2 male, 2 female, 75% EtOH) (PMS1231)

Dillon Beach, Marin County, California

Paratypes: 017196 (4 female, 1 male, 75% EtOH) (PMS1232)

Dillon Beach, Marin County, California

Paratype: 017197 (1 male, 75% EtOH) (PMS1233)

Dillon Beach, Marin County, California

Paratype: 017198 (1 male, 75% EtOH) (PMS1234)

Duxbury Reef, Marin County, California

Paratypes: 017199 (1 female, 1 male, 75% EtOH) (PMS1235)

Tomales Point, California

Paratypes: 017200 (2 female, 75% EtOH) (PMS1236)

Tomales Point, California

Paratype: 017201 (1 female, 75% EtOH) (PMS1237)

Tomales Point, California

Paratype: 017202 (1, 75% EtOH) (PMS1238)

Tomales Point, California

Paratypes: 017203 (1 female, 1 male, 75% EtOH) (PMS1239)

Tomales Point, California

*Jaeropsis dubia paucispinis* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 155

Paratype: 016808 (1 male, 75% EtOH) (PMS1241)

Tomales Point, California

Paratypes: 016809 (2 male, 75% EtOH) (PMS1242)

Tomales Point, California

Paratypes: 016810 (1 male, 1 female, 75% EtOH) (PMS1240)

Tomales Point, California

Family Janiridae

*Caecianiropsis psammophila* Menzies and Pettit, 1956

Proc. U. S. Nat. Mus. 106(3376): 442

Paratypes: 017656 (2 male, 1 female, 75% EtOH) (PMS1330)

Tomales Bluff, California

*Ianiropsis analoga* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 141

Paratype: 017643 (1 male, 75% EtOH) (PMS1320)

Dillon Beach, Marin County, California

Paratypes: 017644 (5 male, 1 female, 75% EtOH) (PMS1321)

Dillon Beach, Marin County, California

Paratypes: 017646 (3 male, 1 female, 75% EtOH) (PMS1322)

Tomales Point, California

*Ianiropsis epilittoralis* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 149

Paratypes: 017647 (2 female, 2 male, 2 juvenile) (PMS1324)

Dillon Beach, Marin County, California

Paratypes: 017648 (2 male, 6 female, 75% EtOH) (PMS1323)

Dillon Beach, Marin County, California

*Ianiropsis montereyensis* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 152

Paratype: 017649 (1 female, 75% EtOH) (PMS1326)

Dillon Beach, Marin County, California

Paratypes: 017650 (5 male, 6 female, 75% EtOH) (PMS1325)

Pescadero Point, Marin County, California

*Ianiropsis tridens* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 156

Paratypes: 017651 (1 male, 1 female, 75% EtOH) (PMS1327)

Moss Beach, San Mateo County, California

Paratypes: 017652 (2 male, 4 female, 75% EtOH) (PMS1328)

Asilomar, California

Paratype: 017653 (1 male, 75% EtOH) (PMS1329)

Dillon Beach, Marin County, California

*Janiralata davisi* Menzies, 1951a

Proc. U. S. Nat. Mus. 101(3273): 123

Paratypes: 016822 (2 female, 75% EtOH) (PMS1218)

Carmel Cove, California

Family Munnidae

*Munna chromatocephala* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 128

Paratypes: 017297 (9 juvenile, 3 female, 1 male, 75% EtOH) (PMS1299)

Dillon Beach, Marin County, California

Paratype: 017298 (1 juvenile, 75% EtOH) (PMS1301)

Dillon Beach, Marin County, California

Paratype: 017299 (1 male juvenile, 75% EtOH) (PMS1302)

Dillon Beach, Marin County, California

*Munna halei* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 132

Paratype: 017300 (1 female, 75% EtOH) (PMS1303)

Tomales Point, California

*Munna ubiquita* Menzies, 1952

Proc. U. S. Nat. Mus. 102(3293): 120

Paratypes: 017291 (2 male, 10 female, 75% EtOH) (PMS1283)

Tomales Bay, California

Paratype: 017292 (1, 75% EtOH) (PMS1284)

Tomales Point, California

Paratype: 017293 (1 female, 75% EtOH) (PMS1287)

Dillon Beach, Marin County, California

Paratypes: 017294 (5, 75% EtOH) (PMS1288)

Dillon Beach, Marin County, California

Paratype: 017295 (1, 75% EtOH) (PMS1289)

Bodega Bay, California

Paratype: 017296 (1 female, 75% EtOH) (PMS1290)

Bodega Harbor, California

*Paramunna quadratifrons* Iverson and Wilson, 1981

Proc. Biol. Soc. Wash. 93(4) (for 1980): 983

Paratype: 015902 (1 male, 75% EtOH)

Tanner Bank, Channel Islands, California

Paratype: 015903 (1 female, 75% EtOH)

Tanner Bank, Channel Islands, California

Family Scyphacidae

*Armadilloniscus coronacapitalis* Menzies, 1950

Proc. Calif. Acad. Sci., ser. 4, 26(13): 468

Holotype: 018800 (1 female, 75% EtOH) (GTY9502, IZ181)

Tomales Bay, California



Paratypes: 017124 (29 male, 11 female, 75% EtOH)  
(PMS994-1023)

Tomales Bay, California

Paratype (Allotype): 018801 (1 male, 75% EtOH)  
(GTY9502a, IZ182)

Tomales Bay, California

Paratypes: 018802 (3 male, 1 female, 75% EtOH)  
(GTY9503, 9503a-c, IZ183)

Tomales Bay, California

Family Serolidae

*Serolis (Serolis) menziesi* Hessler, 1970

Crustaceana 18(3): 227

Paratypes: 019346 (1 female juvenile, 1 early manca, 75%  
EtOH) (IZ388)

South Atlantic off Brazil

Paratypes: 019347 (1 female juvenile, 1 copulatory male, 1  
male juvenile, 3 early mancas, 75% EtOH) (IZ389)

South Atlantic off Brazil

Paratypes: 019348 (1 brooding female, 1 preparatory female,  
5 early mancas, 75% EtOH) (IZ390)

South Atlantic off Brazil

Paratypes: 019349 (4 copulatory male, 1 female juvenile, 1  
male juvenile, 2 late manca male, 8 early mancas, 75%  
EtOH) (IZ391)

South Atlantic off Brazil

Family Sphaeromatidae

*Paraleptosphaeroma glynni* Buss and Iverson, 1981

Postilla 184: 1-23

Paratypes: 018375 (20, 75% EtOH)

Punta Paitilla, Pacific coast, Panama

Order AMPHIPODA

Family Caprellidae

*Caprella acutifrons incisa* Mayer, 1903

Siboga Exped. Rpt. 34: 82

Syntypes: 021177 (25, 75% EtOH) (IZ102)

Pacific Grove, California

*Caprella laeviuscula* Mayer, 1903

Siboga. Exped. Rpt. 34: 109

Syntypes: 021179 (6, 75% EtOH) (IZ103)

Humboldt Bay, California

*Caprella paulina* Mayer, 1903

Siboga Exped. Rpt. 34: 116

Syntypes: 021180 (3, 75% EtOH) (IZ154)

St. Paul Island, Pribolof Islands

*Tritella laevis* Mayer, 1903

Siboga Exped. Rpt. 34: 48

Syntypes: 021176 (2 males, 75% EtOH) (IZ155)

Pacific Grove, California

Superorder EUCARIDA

Order DECAPODA

Family Alpheidae

*Betaeus macginitiae* Hart, 1964

Proc. U. S. Nat. Mus. 115(3490): 451

Paratype: 014029 (1 female, 75% EtOH)

Monterey Bay, California

*Betaeus setosus* Hart, 1964

Proc. U. S. Nat. Mus. 115(3490): 455

Paratypes: 014042 (2 male, 75% EtOH)

Monterey Bay, California

Paratypes: 014043 (2 male, 75% EtOH)

Monterey Bay, California

Family Crangonidae

*Crangon hakodatei* Rathbun, 1902b

Proc. U. S. Nat. Mus. 26(1307): 42

Syntypes: 024530 (3 +, 75% EtOH)

Hokkaido, Japan

*Crangon handi* Kuris and Carlton, 1977

Biol. Bull. 153: 543

Paratype: 019350 (1, 75% EtOH)

Bodega Head, California

Paratype: 019351 (1, 75% EtOH)

Monterey Bay, California

Family Disciidae

*Discias serrifer* Rathbun, 1902c

Proc. Wash. Acad. Sci. 4: 290

Syntype: 021790 (1 female, 75% EtOH) (IZ84)

Isla Isabela, Galapagos Islands

Family Dromiidae

*Dromidia segnipes* Weymouth, 1910

Leland Stanford Jr. Univ. Publ., Univ. Ser. 4: 15

Holotype: 021159 (1 male, 75% EtOH) (IZ20, SU478)

Monterey Bay, California

Paratype: 021160 (1 female, 75% EtOH) (IZ21, SU479)

Monterey Bay, California

Family Hippolytidae

*Heptacarpus pugetensis* Jensen, 1983

J. Crust. Biol. 3(2): 314

Paratypes: 031126 (1 male, 3 female, 75% EtOH)

Seattle, Washington

Paratypes: 031127 (1 male, 2 female, 75% EtOH)

Seattle, Washington

Family Leucosiidae

*Ebalia jordani* Rathbun, 1906

Bull. U. S. Fish Comm. 23(3) (for 1903): 889

Paratype: 021781 (1 male, 75% EtOH) (IZ86)

Molokai, Hawaii

*Randallia gilberti* Rathbun, 1906

Bull. U. S. Fish Comm. 23(3) (for 1903): 890

Paratype: 024436 (1 male, 75% EtOH)

Molokai, Hawaii

Family Majidae

*Libinia setosa* Lockington, 1877

Proc. Calif. Acad. Sci. 7(5): 68

Designated by Garth (1958) in Allan Hancock Pac. Expeds.  
21(1): 323

Neotype: 018840 (1 male, 75% EtOH) (IZ120)

Santa Maria Bay, Baja California

## Family Ocypodidae

*Uca helleri* Rathbun, 1902c

Proc. Wash. Acad. Sci. 4: 277

Syntypes: 021788 (4 male, 2 female, 75% EtOH) (IZ82, SU4501)

Isla Fernandina, Galapagos Islands

*Uca thayeri* Rathbun, 1900

Proc. Wash. Acad. Sci. 2: 134

Syntype: 021787 (1 male, 75% EtOH) (IZ90)

Cabadelo, Paraiba, Brazil

## Family Ophiophoridae

*Acanthephyra chacei* Krygier and Forss, 1981

J. Crust. Biol. 1(1): 96-104

Paratype: (015935) (1 female, 75% EtOH)

north Pacific Ocean, off Oregon

Paratypes: (015936) (1 female, 75% EtOH)

north Pacific Ocean, off Oregon

Paratype: (015937) (1 male, 75% EtOH)

north Pacific Ocean, off Oregon

## Family Palaemonidae

*Periclimenes pusillus* Rathbun, 1906

Bull. U. S. Fish Comm. 23(3) (for 1903): 921

Paratype: 021782 (1, 75% EtOH) (IZ87)

Oahu, Hawaii

## Family Pandalidae

*Pandalopsis aleutica* Rathbun, 1902a

Proc. U. S. Nat. Mus. 24(1272): 901

Syntype: 028180 (1, dry)

Aleutian Islands, Alaska

*Pandalus latirostris* Rathbun, 1902b

Proc. U. S. Nat. Mus. 26(1307): 46

Syntypes: 024529 (7, 75% EtOH)

Hokkaido, Japan

## Family Penaeidae

*Sicyonia longicauda* Rathbun, 1906

Bull. U. S. Fish Comm. 23 (3) (for 1903): 908

Paratype: 024532 (1, 75% EtOH)

Pailolo Channel, Hawaii

## Family Potamidae

*Pseudohelphusa sonorensis* Miles, 1967

J. Ariz. Acad. Sci. 4(4): 231

Paratype: 018666 (1 male, 75% EtOH) (IZ257)

Sonora, Mexico

Paratype: 018667 (1 female, 75% EtOH) (IZ258)

Sonora, Mexico

## Family Xanthiidae

*Carpilodes virgatus* Rathbun, 1906

Bull. U. S. Fish Comm. 23 (3) (for 1903): 843

Paratype: 021783 (1, 75% EtOH) (IZ88)

Auau Channel, Hawaii

*Platypodia gemmata* Rathbun, 1902c

Proc. Wash. Acad. Sci. 4: 279

Syntype: 021789 (1 immature female, 75% EtOH) (IZ83)

Isla Isabela, Galapagos Islands

*Xantho lacunosus* Rathbun, 1906

Bull. U. S. Fish Comm. 23 (3) (for 1903): 847

Paratype: 021780 (1, 75% EtOH) (IZ85)

Auau Channel, Hawaii

## Phylum TARDIGRADA

## Order HETEROTARDIGRADA

## Family Echiniscidae

*Echiniscus cavagnaroi* Schuster and Grigarick, 1966

Proc. Calif. Acad. Sci., ser. 4, 34(5): 321

Paratypes: 021631 (2, 2 micro. slides) (IZ311-312)

Isla Santa Cruz, Galapagos Islands

*Echiniscus kofordi* Schuster and Grigarick, 1966

Proc. Calif. Acad. Sci., ser. 4, 34(5): 321

Paratype: 021632 (1, micro. slide) (IZ313)

Isla Santa Cruz, Galapagos Islands

*Pseudechiniscus goedeni* Grigarick, Mihelčič, and Schuster, 1964

Proc. Biol. Soc. Wash. 77: 5

Paratypes: 021634 (3, 3 micro. slides) (IZ184-186)

Marion County, Oregon

*Pseudechiniscus raneyi* Grigarick, Mihelčič, and Schuster, 1964

Proc. Biol. Soc. Wash. 77: 6

Paratypes: 021635 (3, 3 micro slides) (IZ187-189)

Tulare County, California

## Phylum BRYOZOA

## Class Gymnolaemata

## Order CHEILOSTOMATA

## Family Bugulidae

*Bugula californica* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 267

Syntype: 021951 (fragments, 75% EtOH) (UC14601)

Marin County, California

Syntype: 021952 (many fragments, 75% EtOH) (UC14602)

Monterey County, California

Syntype: 021953 (many fragments, 75% EtOH) (IZ271,

UC14625)

Marin County, California

*Bugula curvirostrata* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 272

Syntype: 021955 (fragments, 75% EtOH) (IZ272, UC14606)

off Catalina Island, California

*Bugula laxa* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 275

Syntype: 021957 (fragments, 75% EtOH) (UC14610)

Puget Sound, Washington

*Bugula longirostrata* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 274

Holotype: 021956 (fragments, 75% EtOH) (UC14624)

San Diego County, California

*Bugula pacifica* Robertson, 1900

Proc. Wash. Acad. Sci. 2: 321

Syntype: 021947 (pieces, 75% EtOH) (UC14594)

Prince William Sound, Alaska

Syntype: 021948 (pieces, 75% EtOH)

Puget Sound, Washington

*Bugula pugeti* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 271

Syntype: 021954 (fragments on limpet shells, 75% EtOH)

(UC14619)

Sitka, Alaska

*Stirparia californica* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 281

Syntype: 021964 (fragments, 75% EtOH) (UC14651)

San Diego, California

*Stirparia ciliata* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 279

Syntype: 021958 (fragments, 75% EtOH) (UC14823)

Marin County, California

Syntype: 021959 (fragments, 75% EtOH) (UC14629)

San Francisco Bay, California

Syntype: 021960 (fragments, 75% EtOH) (UC14627)

San Francisco Bay, California

Syntype: 021961 (fragments, 75% EtOH) (UC14621)

San Francisco, California

*Stirparia occidentalis* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 280

Syntype: 021962 (fragments, 75% EtOH) (UC14622)

Puget Sound, Washington

Syntype: 021963 (fragments, 75% EtOH) (UC14620)

Monterey Bay, California

Family Cellariidae

*Cellaria diffusa* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 289

Syntype: 021965 (fragments, 75% EtOH) (UC14636)

San Diego, California

Syntype: 021966 (fragments, 75% EtOH) (UC14635)

San Diego, California

Syntype: 021967 (fragments, 75% EtOH) (UC14633)

San Pedro, California

Syntype: 021968 (fragments, 75% EtOH) (UC14634)

Puget Sound, Washington

Family Flustridae

*Flustra lichenoides* Robertson, 1900

Proc. Wash. Acad. Sci. 2: 322

Syntypes: 018827 (many colonies, 75% EtOH) (IZ266)

Puget Sound, Washington

Syntypes: 018828 (many colonies, 75% EtOH) (IZ267)

Puget Sound, Washington

Family Reteporidae

*Retepora pacifica catalinensis* Robertson, 1908

Univ. Calif. Publ. Zool. 4(5): 311

Syntype: 021945 (fragments, 75% EtOH) (IZ268, UC14845)

Channel Islands, California

Family Scrupocellariidae

*Menipea erecta* Robertson, 1900

Proc. Wash. Acad. Sci. 2: 317

Syntype: 021946 (fragments, 75% EtOH) (UC14544)

Sitka, Alaska

*Menipea pribilofi* Robertson, 1905

Univ. Calif. Publ. Zool. 2(5): 257

Syntype: 021949 (many fragments, 75% EtOH)

Pribilof Islands, Alaska

Syntype: 021950 (many fragments, 75% EtOH) (UC14528)

Yakutat, Alaska

## Phylum BRACHIOPODA

## Class Articulata

Order TEREBRATULIDA

Family Terebratellidae

*Argyotheca lowei* Hertlein and Grant, 1944

UCLA Publ. Math. Phys. Sci. 3: 104

Paratypes: 029807 (2, dry) (GTY7306-7307)

off Angel de la Guarda Island, Baja California, Mexico

## Phylum ECHINODERMATA

## Class Stellerioidea

## Subclass Ophiuroidea

Order PHRYNOPHIURIDA

Family Euryalidae

*Astroscchema sublaeve* Lütken and Mortensen, 1899

Mem. Mus. Comp. Zool. Harvard 23(2): 187

Syntype: 021182 (1, 75% EtOH) (IZ99)

north of Isla Santa Cruz, Galapagos Islands

Order OPHIURIDA

Family Amphiuridae

*Amphiodia psara* Clark, 1935

Ann. Mag. Nat. Hist., ser. 10, 15: 127

Paratype: 021812 (1, 75% EtOH)

Corona del Mar, California

*Amphiura diomedea* Lütken and Mortensen, 1899

Mem. Mus. Comp. Zool. Harvard 23(2): 151

Syntype: 021181 (1, 75% EtOH) (IZ111)

Pacific coast of Panama

Family Ophiacanthidae

*Ophiacantha eurythra* Clark, 1935

Ann. Mag. Nat. Hist., ser. 10, 15: 125

Paratype: 028176 (1, dry) (G2640-2641)

Corona del Mar, California

## Class Echinoidea

Order SALENOIDA

Family Saleniidae

*Salenia scrippsae* Zullo and Allison, in Zullo, Kaar, Durham and Allison, 1964

Paleontology 7(2): 339

Paratype: 029957 (1, dry) (GTY12621)

Nasca Ridge, Pacific Ocean

Order CLYPEASTEROIDA

Family Dendrasteridae

*Dendraster laevis* Clark, 1948

Allan Hancock Pac. Expeds. 8(5): 312

Paratypes: 029947 (2, dry) (GTY9924-9925)

N of Santa Barbara Island, California

*Dendraster mexicanus* Clark, 1948

Allan Hancock Pac. Expeds. 8(5): 313

Paratype: 029950 (1, dry) (GTY9923)

Rosario Bay, Baja California, Mexico

Family Fibulariidae

*Echinocyamus terminalis* Grant and Hertlein, 1938

Publ. Univ. Calif. Los Angeles Math. Phys. Sci. 2: 48

Holotype: 029939 (1, dry) (GTY7168)

Guadalupe Island, Mexico

Paratypes: 029940 (3, dry) (GTY7179)

Guadalupe Island, Mexico



## Family Mellitidae

*Encope ecuadorensis* Clark, 1948

Allan Hancock Pac. Expeds. 8(5): 333  
Paratype: 029945 (1, dry) (GTY9921)  
Salengo Island, Manabi, Ecuador

*Encope fragilis* Clark, 1948

Allan Hancock Pac. Expeds. 8(5): 335  
Paratype: 029946 (1, dry) (GTY9919)  
Petatlan Bay, Guerrero, Mexico

*Encope irregularis* Clark, 1948

Allan Hancock Pacific Expeds. 8(5): 332  
Paratype: 029948 (1, dry) (GTY9922)  
Octavia Bay, Choco, Colombia

*Encope laevis* Clark, 1948

Allan Hancock Pac. Expeds. 8(5): 327  
Paratype: 029949 (1, dry) (GTY9920)  
Chinandega, Pacific Coast, Nicaragua

*Mellita kanakoffi* Durham, 1961

Contrib. Sci. Los Angeles Co. Mus. 48: 5  
Paratype: 029953 (1, dry) (GTY12368)  
Piedra Blanca Bay, Guanacaste, Costa Rica

## Order SPATANGOIDA

## Family Asterostomatidae

*Scrippsechinus fisheri* Allison, Durham and Mintz, 1967

Occ. Pap. Calif. Acad. Sci. 62: 16  
Paratype: 029952 (1, dry) (GTY12945)  
Nasca Ridge, Pacific Ocean

## Class Holothuroidea

## Order DENDROCHIROTIDA

## Family Cucumariidae

*Cucumaria tenuicoriata* Wells, 1924

Ann. Mag. Nat. Hist., ser. 9, 14: 120  
Paratype: 024897 (1, 75% EtOH)  
Monterey Bay, California

*Sphaerothuria bitentaculata* Ludwig, 1893

Zool. Anz. 16(420): 184  
Syntype: 018476 (1, 75% EtOH) (IZ022)  
off Panama, Pacific Ocean

## Family Psolidae

*Psolidium panamense* Ludwig, 1894

Mem. Mus. Comp. Zool. Harvard 17(3): 17  
Syntypes: 018694 (2, 75% EtOH) (IZ124)  
Gulf of Panama

*Psolus californicus* Fisher, 1905

Zool. Anz. 29(18): 573  
Holotype: 028179 (1, dry)  
Monterey Bay, California

## Order ASPIDCHIROTIDA

## Family Holothuriidae

*Holothuria frequentiamensis* Clark, 1902

Proc. Wash. Acad. Sci. 4: 530  
Syntypes: 021165 (7, 75% EtOH) (IZ150)  
Clipperton Island, Pacific Ocean

*Holothuria hawaiiensis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 668  
Paratype: 021358 (1, 75% EtOH) (IZ397)  
Auau Channel, Hawaii

*Mesothuria carnosa* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 679  
Paratypes: 021359 (5, 75% EtOH) (IZ402 and 259)  
Kauai, Hawaii

Paratype: 021360 (1, 75% EtOH) (IZ260)

Kauai, Hawaii

Paratype: 021361 (1, 75% EtOH) (IZ261)

Kauai, Hawaii

Paratypes: 036328 (2 +, 75% EtOH)

Kauai, Hawaii

*Paeolopatides retifer* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 693  
Paratype: 021364 (1, 75% EtOH) (IZ123)  
Nihoa Island, Leeward Islands

*Pseudostichopus propinquus* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 691  
Paratype: 021363 (1, 75% EtOH) (IZ403)  
Pailolo Channel, Hawaii

## Family Stichopodidae

*Stichopus tropicalis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 676  
Syntypes: 021370 (2, 75% EtOH) (IZ404)  
Oahu, Hawaii

## Order ELASIPODIDA

## Family Deimatidae

*Orphnurgus insignis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 702  
Paratype: 021365 (1, 75% EtOH) (IZ405)  
Kauai, Hawaii

Paratype: 024494 (1, 75% EtOH)

Molokai, Hawaii

Paratype: 024495 (1, 75% EtOH)

Maui, Hawaii

Paratype: 024496 (1, 75% EtOH)

Kauai, Hawaii

Paratype: 024497 (1, 75% EtOH)

Kauai, Hawaii

## Family Elpidiidae

*Laetmogone biserialis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 706  
Paratype: 021366 (1, 75% EtOH) (IZ406)  
Kauai, Hawaii

## Order APODIDA

## Family Chiridotidae

*Chiridota hawaiiensis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 731  
Paratypes: 024498 (13, dry)  
Oahu, Hawaii

## Family Synaptidae

*Anapta inermis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 730  
Paratypes: 021369 (2, 75% EtOH) (IZ407)  
Oahu, Hawaii

*Opheodesoma spectabilis* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 723  
Paratypes: 024499 (3, 75% EtOH)  
Oahu, Hawaii

*Protankyra albatrossi* Fisher, 1907

Proc. U. S. Nat. Mus. 32(1555): 728

Paratype: 021367 (1, 75% EtOH) (IZ149)

Molokai, Hawaii

Paratype: 021368 (1, 75% EtOH) (IZ409)

Molokai, Hawaii

Phylum CHORDATA  
Subphylum TUNICATA  
Class Ascidiacea

Order APLOUSOBRANCHIA

Family Polycitoridae

*Distaplia smithi* Abbott and Trason, 1968

Bull. So. Calif. Acad. Sci. 67(3): 147

Paratypes: 018794 (20+ colonies, 75% EtOH) (IZ229)

Pescadero Point, Monterey County, California

*Eudistoma diaphanes* Ritter and Forsyth, 1917

Univ. Calif. Publ. Zool. 16(24): 469

Syntype: 035396 (several pieces, 75% EtOH)

La Jolla, California

*Eudistoma psammion* Ritter and Forsyth, 1917

Univ. Calif. Publ. Zool. 16(24): 467

Syntype: 035395 (8 pieces, 75% EtOH)

La Jolla, California

*Ritterella rubra* Abbott and Trason, 1968

Bull. So. Calif. Acad. Sci. 67(3): 143

Paratypes: 018793 (10+ colonies, 75% EtOH) (IZ228)

Pacific Grove, California

Family Polyclinidae

*Amaroucium aequalisiphonis* Ritter and Forsyth, 1917

Univ. Calif. Publ. Zool. 16(24): 487

Syntype: 035397 (several pieces, 75% EtOH)

Santa Barbara, California

Order STOLIDOBRANCHIA

Family Styelidae

*Dendrodoa subpedunculata* Ritter, 1899

The Fur Seals and Fur-Seal Islands of the North Pacific Ocean,

III: 514

Syntypes: 018792 (14+, 75% EtOH) (IZ108)

Pribilof Islands, Alaska

*Dendrodoa tuberculata* Ritter, 1899

The Fur Seals and Fur-Seal Islands of the North Pacific Ocean,

III: 512

Syntypes: 035618 (31 pieces, 75% EtOH)

Pribilof Islands, Alaska

*Styela barnharti* Ritter and Forsyth, 1917

Univ. Calif. Publ. Zool. 16(24): 452

Holotype: 021166 (1, 75% EtOH)

San Diego Bay, California

*Styela sabulifera* Ritter, 1913

Proc. U. S. Nat. Mus. 45: 475

Paratypes: 034776 (17, 75% EtOH)

Bering Sea, Alaska

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